



# **ESC/SR**

## *ISR Integration*

# ***STEEL EAGLE/ARGUS***

## ***Program Overview***

***for***

## ***PEOSYSCOM Panel***

**21 November 2002**

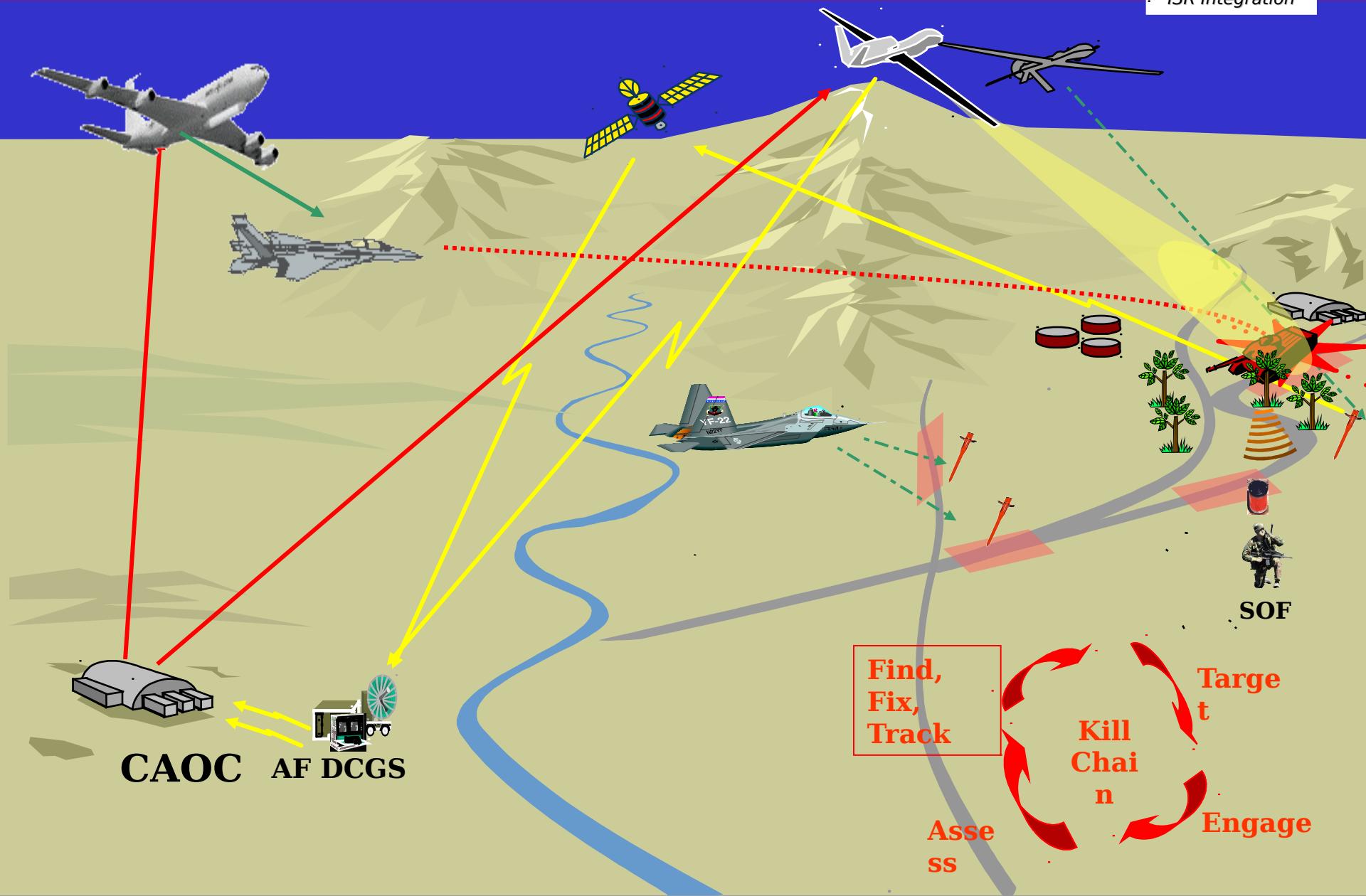
**Presented By:**  
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# CONOPS (Notional)



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# Background



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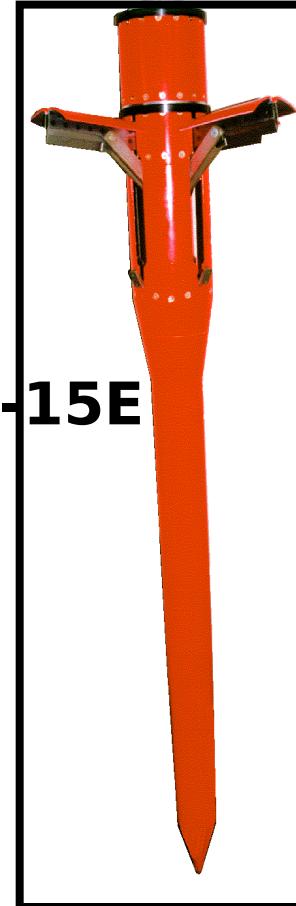
- **Documented DESERT STORM Deficiency - Couldn't Locate and Kill Time Critical Targets - 1992.**
- **EUCOM C-MNS: Locate and ID "Tanks Under Trees" - 1999.**
- **DIA/CMO & DUSD (AS&C) Funded UGS ACTD - ~\$20M.**
  - **1996-1999**
  - **CMO/TCO Funded Sandia National Laboratory to Develop STEEL EAGLE (SE).**
  - **Demonstrated Air Delivered Unattended Seismic and Acoustic Sensors Could Detect, Locate, and ID TCTs**
- **FY 99/01 ESC/SR funded to Initiate Transition From ACTD to R&D, Dev / Production Acquisition (~\$1.9M)**
- **FY02 Defense Emergency Relief Funding (DERF) Provided for 25 more SE sensors (~\$6.8M) - 9/11 Initiative**



# ACTD (STEEL EAGLE)



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**STEEL EAGLE was certified for the F-15E**



**STEEL EAGLE  
is a ground  
penetration  
device**

**STEEL EAGLE**



# STEEL EAGLE to ARGUS



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# ARGUS Program Objectives



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**Develop, Acquire, Field and Support a Family of Expendable Micro-sensors (Air Delivered and Hand Emplaced) as a Single System to Detect & Identify Time Critical Targets**

- Plan for Block Upgrades Through Spiral Development for Additional Sensor Types, Communications, and Target Library



# ARGUS



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## Program Description

Provides 24hr ground sensing capability; Detects/ Identifies/Reports vehicle activity

- Cross-cues ISR assets, TCT near real-time
- Bearing/type ID/time of detect/geo-location
- Primarily supports Intelligence Preparation of the Battlespace

## Program Capabilities

Battle space Prediction Battlespace Awareness (TPB/PBA) w/ expanding applications. Must Be Capable of Finding, Fixing, and Tracking Targets Located Within 500 Meters of the Sensor and Identifying Within 200 Meters.  
- Communications Interface Component of ARGUS Must Ensure Two-way Global Communications between the sensor and Its Operator Interface.

## Program Guidance

- DERF \$\$ provided to restart ARGUS Acquisition Program to follow STEEL EAGLE Contingency Effort.
- PMD in Final Coordination
- PE # 35148F
- CONOPS signed 16 Aug 02
- ORD May 00, MS B ORD in Review

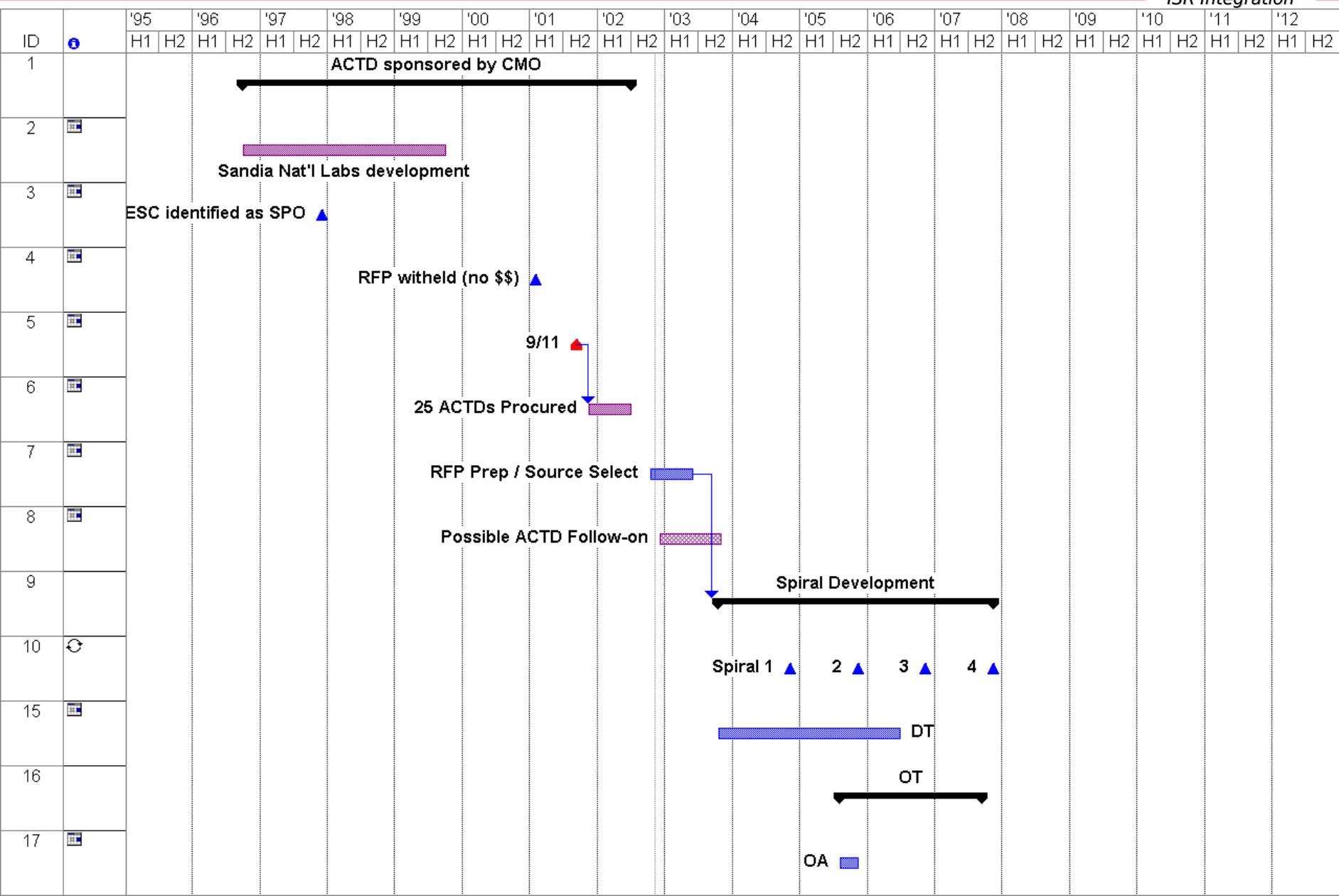
## Major Milestones:

DRAFT RFP RELEASE	Dec 02
RFP RELEASE	Jan 03
PROPOSALS RECEIVED	Mar 03
SOURCE SELECTION	Apr 03
SSA DECISION, MS B, CONTRACT AWARD	May 03



# Schedule

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# Market Research



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- **Objective:** Determine Ability of Industry to Respond to ARGUS Incremental Development & Production Requirements
  - March 2000, Received Thirty- Eight (38) Responses - Before Program was Cancelled
  - Jun 2002, Received Fifty-Two (52) Responses
- **Twelve (12) of Twenty (20) Prime Contractors Notified as Highly Competitive**



# Acquisition Strategy



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- Capitalize on Current Investments (GFI)
- Respond to User Need/Schedule
  - Certified Aero body w/ SE Capability - Spiral 1
  - Future Spirals Contractor Defined
    - Secure Comm, Anti-Tamper, GPS Accreditation
- Open Systems Approach
  - Maximum Use of COTS/GOTS
  - Future Sensors Identified as new Block
- Requirements Managed by Overarching IPT



# ARGUS Program Summary

ISR Integration



- ARGUS provides early and continuous ISR capability in austere locations
- Provides cross-cueing of other ISR platforms
- Excellent candidate for additional capabilities



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*ISR Integration*

# BACKUP SLIDES



# Notional ARGUS Architecture



ISR Integration

